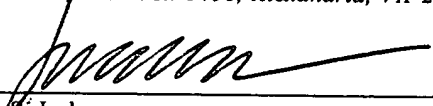


263/11  
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

*I hereby certify that this correspondence is being deposited with the U.S. Postal Service as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on August 17, 2005.*

  
Vanessa Jackson

Applicant : Stephen P. Pope  
Application No. : 09/636,000  
Filed : August 9, 2000  
Title : MAXIMUM LIKELIHOOD SEQUENCE ESTIMATOR WHICH  
COMPUTES BRANCH METRICS IN REAL TIME  
Grp./Div. : 2631  
Examiner : Kevin Michael Burd  
Docket No. : 50980/RJP/B600  
Confirmation No. 5413

REQUEST TO CORRECT INVENTORSHIP IN A PATENT APPLICATION  
UNDER 37 CFR § 1.48(a)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Post Office Box 7068  
Pasadena, CA 91109-7068  
August 17, 2005

Commissioner:

Applicant hereby requests that the inventorship in the above-referenced application be changed to list Stephen P. Pope, Aki Shohara, Yue Chen and Bryan Chase as inventors. Aki Shohara, Yue Chen and Bryan Chase are being added as inventors.

Enclosed herein are:

Statements from each of the added inventors as required by 37 CFR §1.48(a)(2);  
Declarations as required by 37 CFR §1.48(a)(3);  
The processing fee as required by 37 CFR §1.48(a)(4) and §1.17(i); and  
The written consent of the Assignee as required by 37 CFR §1.48(a)(5).

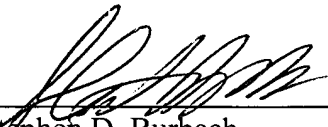
The Commissioner is hereby authorized to charge any fees that this paper may require under 37 CFR 1.16 and 1.17 to Deposit Account No. 03-1728. Please show our docket number

**Application No. 09/636,000**

with any charge or credit to our Deposit Account. **A duplicate copy of this sheet is enclosed.**

Respectfully submitted,

CHRISTIE, PARKER & HALE, LLP

By   
Stephen D. Burbach  
Reg. No. 40,285  
626/795-9900

SDB/vsj  
Enclosures  
VSJ PAS634997.1-\* -08/17/05 9:03 AM



PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Stephen P. Pope Confirmation No. 5413  
Application No. : 09/636,000  
Filed : August 9, 2000  
Title : MAXIMUM LIKELIHOOD SEQUENCE ESTIMATOR WHICH  
COMPUTES BRANCH METRICS IN REAL TIME  
  
Grp./Div. : 2631  
Examiner : Kevin Michael Burd  
  
Docket No. : 50980/RJP/B600

## STATEMENT OF AKI SHOHARA

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Post Office Box 7068  
Pasadena, CA 91109-7068  
August 1, 2005

Commissioner:

I, Aki Shohara, was erroneously not named as an inventor in the above-referenced application. This error in inventorship occurred without any deceptive intention on my part.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Aki Shohara", written over a horizontal line.

Aki Shohara

GSL/vsj  
SDB PAS635011.1-08/1/05 5:15 PM



PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Stephen P. Pope Confirmation No. 5413  
Application No. : 09/636,000  
Filed : August 9, 2000  
Title : MAXIMUM LIKELIHOOD SEQUENCE ESTIMATOR WHICH  
COMPUTES BRANCH METRICS IN REAL TIME

Grp./Div. : 2631  
Examiner : Kevin Michael Burd

Docket No. : 50980/RJP/B600

## STATEMENT OF YUE CHEN

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Post Office Box 7068  
Pasadena, CA 91109-7068  
August 1, 2005

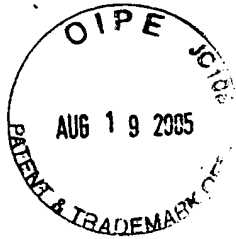
Commissioner:

I, Yue Chen, was erroneously not named as an inventor in the above-referenced application. This error in inventorship occurred without any deceptive intention on my part.

Respectfully submitted,

  
\_\_\_\_\_  
Yue Chen

GSL/vsj  
SDB PAS635006.1\*-08/1/05 5:16 PM



PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Stephen P. Pope Confirmation No. 5413  
Application No. : 09/636,000  
Filed : August 9, 2000  
Title : MAXIMUM LIKELIHOOD SEQUENCE ESTIMATOR WHICH  
COMPUTES BRANCH METRICS IN REAL TIME

Grp./Div. : 2631  
Examiner : Kevin Michael Burd

Docket No. : 50980/RJP/B600

## STATEMENT OF BRYAN CHASE

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Post Office Box 7068  
Pasadena, CA 91109-7068  
August 1, 2005

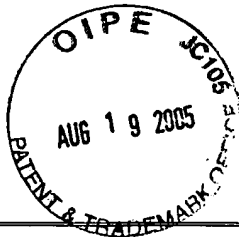
Commissioner:

I, Bryan Chase, was erroneously not named as an inventor in the above-referenced application. This error in inventorship occurred without any deceptive intention on my part.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Bryan Chase", written over a horizontal line.

Bryan Chase



JP  
5 Aug 2005

Rev. 07/01

DECLARATION FOR PATENT APPLICATION

PATENT

Docket No. 50980/SDB/B600

As a below named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled MAXIMUM LIKELIHOOD SEQUENCE ESTIMATOR WHICH COMPUTES BRANCH METRICS IN REAL TIME, the specification of which is attached hereto unless the following is checked:

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I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

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Prior Foreign Application(s)

| <u>Application Number</u> | <u>Country</u> | <u>Filing Date (day/month/year)</u> | <u>Priority Claimed</u> |
|---------------------------|----------------|-------------------------------------|-------------------------|
|---------------------------|----------------|-------------------------------------|-------------------------|

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

| <u>Application Number</u> | <u>Filing Date</u> |
|---------------------------|--------------------|
|---------------------------|--------------------|

|            |                |
|------------|----------------|
| 60/147,506 | August 9, 1999 |
|------------|----------------|

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge that the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

| <u>Application Number</u> | <u>Filing Date</u> | <u>Patented/Pending/Abandoned</u> |
|---------------------------|--------------------|-----------------------------------|
|---------------------------|--------------------|-----------------------------------|

# DECLARATION FOR PATENT APPLICATION

Docket No. 50980/SDB/B600

I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

|   |   |         |                    |
|---|---|---------|--------------------|
| <b>NAME OF SOLE OR FIRST INVENTOR</b>       |   |         |                    |
| Stephen P. Pope                             |   |         |                    |
| Inventor's Signature <i>Stephen P. Pope</i> |   |         | Date<br>5 Aug 2005 |
| City  | State   | Country | Citizenship        |
| Residence: Berkeley                         | California                                    | US      | US                 |
| Mailing Address:                            | 16215 Alton Parkway, Irvine, California 92618 |         |                    |

|                                |   |         |             |
|--------------------------------|---|---------|-------------|
| <b>NAME OF SECOND INVENTOR</b> |   |         |             |
| Aki Shohara                    |   |         |             |
| Inventor's Signature           |   |         | Date        |
| City                           | State   | Country | Citizenship |
| Residence: Sunnyvale           | California                                    | US      | US          |
| Mailing Address:               | 16215 Alton Parkway, Irvine, California 92618 |         |             |

|                               |   |         |             |
|-------------------------------|---|---------|-------------|
| <b>NAME OF THIRD INVENTOR</b> |   |         |             |
| Yue Chen                      |   |         |             |
| Inventor's Signature          |   |         | Date        |
| City                          | State   | Country | Citizenship |
| Residence: Fremont            | California                                    | US      | PRC         |
| Mailing Address:              | 16215 Alton Parkway, Irvine, California 92618 |         |             |

JP  
5 Aug 2005

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**DECLARATION FOR PATENT APPLICATION**

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**Docket No. 50980/SDB/B600**

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|                                |   |         |             |
|--------------------------------|---|---------|-------------|
| <b>NAME OF FOURTH INVENTOR</b> |   |         |             |
| Bryan Chase                    |   |         |             |
| Inventor's Signature           |   |         | Date        |
| City                           | State   | Country | Citizenship |
| Residence: Sunnyvale           | California                                    | US      | US          |
| Mailing Address:               | 16215 Alton Parkway, Irvine, California 92618 |         |             |

SDB PAS634974.1-\* -08/1/05 3:49 PM





Rev. 07/01

## DECLARATION FOR PATENT APPLICATION

PATENT

Docket No. 50980/SDB/B600

As a below named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled MAXIMUM LIKELIHOOD SEQUENCE ESTIMATOR WHICH COMPUTES BRANCH METRICS IN REAL TIME, the specification of which is attached hereto unless the following is checked:

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I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

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Prior Foreign Application(s)

| <u>Application Number</u> | <u>Country</u> | <u>Filing Date (day/month/year)</u> | <u>Priority Claimed</u> |
|---------------------------|----------------|-------------------------------------|-------------------------|
|---------------------------|----------------|-------------------------------------|-------------------------|

-

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

| <u>Application Number</u> | <u>Filing Date</u> |
|---------------------------|--------------------|
|---------------------------|--------------------|

60/147,506

August 9, 1999

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge that the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

| <u>Application Number</u> | <u>Filing Date</u> | <u>Patented/Pending/Abandoned</u> |
|---------------------------|--------------------|-----------------------------------|
|---------------------------|--------------------|-----------------------------------|

-

**DECLARATION FOR PATENT APPLICATION****Docket No. 50980/SDB/B600**

I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

|                                       |   |         |             |
|---------------------------------------|---|---------|-------------|
| <b>NAME OF SOLE OR FIRST INVENTOR</b> |   |         |             |
| Stephen P. Pope                       |   |         |             |
| Inventor's Signature                  |   |         | Date        |
| City                                  | State   | Country | Citizenship |
| Residence: Berkeley                   | California                                    | US      | US          |
| Mailing Address:                      | 16215 Alton Parkway, Irvine, California 92618 |         |             |

|   |   |         |                         |
|---|---|---------|-------------------------|
| <b>NAME OF SECOND INVENTOR</b>          |   |         |                         |
| Aki Shohara                             |   |         |                         |
| Inventor's Signature <i>Aki Shohara</i> |   |         | Date <i>Aug 1, 2005</i> |
| City                                    | State   | Country | Citizenship             |
| Residence: Sunnyvale                    | California                                    | US      | US                      |
| Mailing Address:                        | 16215 Alton Parkway, Irvine, California 92618 |         |                         |

|                               |   |         |             |
|-------------------------------|---|---------|-------------|
| <b>NAME OF THIRD INVENTOR</b> |   |         |             |
| Yue Chen                      |   |         |             |
| Inventor's Signature          |   |         | Date        |
| City                          | State   | Country | Citizenship |
| Residence: Fremont            | California                                    | US      | PRC         |
| Mailing Address:              | 16215 Alton Parkway, Irvine, California 92618 |         |             |

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**DECLARATION FOR PATENT APPLICATION**

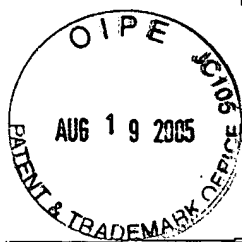
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**Docket No. 50980/SDB/B600**

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|                                |   |         |             |
|--------------------------------|---|---------|-------------|
| <b>NAME OF FOURTH INVENTOR</b> |   |         |             |
| Bryan Chasc                    |   |         |             |
| Inventor's Signature           |   |         | Date        |
| City                           | State   | Country | Citizenship |
| Residence: Sunnyvale           | California                                    | US      | US          |
| Mailing Address:               | 16215 Alton Parkway, Irvine, California 92618 |         |             |

SDB PAS634974.1-08/1/05 3:49 PM



Rev. 07/01

## DECLARATION FOR PATENT APPLICATION

PATENT

Docket No. 50980/SDB/B600

As a below named inventor, I hereby declare that:

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Prior Foreign Application(s)

| <u>Application Number</u> | <u>Country</u> | <u>Filing Date (day/month/year)</u> | <u>Priority Claimed</u> |
|---------------------------|----------------|-------------------------------------|-------------------------|
|---------------------------|----------------|-------------------------------------|-------------------------|

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

| <u>Application Number</u> | <u>Filing Date</u> |
|---------------------------|--------------------|
| 60/147,506                | August 9, 1999     |

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| <u>Application Number</u> | <u>Filing Date</u> | <u>Patented/Pending/Abandoned</u> |
|---------------------------|--------------------|-----------------------------------|
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**DECLARATION FOR PATENT APPLICATION****Docket No. 50980/SDB/B600**

I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**NAME OF SOLE OR FIRST INVENTOR**

Stephen P. Pope

|                      |   |         |             |
|----------------------|---|---------|-------------|
| Inventor's Signature |   |         | Date        |
| City                 | State   | Country | Citizenship |
| Residence: Berkeley  | California                                    | US      | US          |
| Mailing Address:     | 16215 Alton Parkway, Irvine, California 92618 |         |             |


**NAME OF SECOND INVENTOR**

Aki Shohara

|                      |   |         |             |
|----------------------|---|---------|-------------|
| Inventor's Signature |   |         | Date        |
| City                 | State   | Country | Citizenship |
| Residence: Sunnyvale | California                                    | US      | US          |
| Mailing Address:     | 16215 Alton Parkway, Irvine, California 92618 |         |             |

**NAME OF THIRD INVENTOR**

Yuc Chen

|  |   |         |                    |
|--|---|---------|--------------------|
| Inventor's Signature  |   |         | Date<br>Aug. 2, 05 |
| City   | State   | Country | Citizenship        |
| Residence: Fremont   | California                                    | US      | PRC                |
| Mailing Address:   | 16215 Alton Parkway, Irvine, California 92618 |         |                    |

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**DECLARATION FOR PATENT APPLICATION**

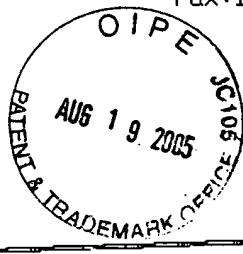
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**Docket No. 50980/SDB/B600**

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|                                |   |         |             |
|--------------------------------|---|---------|-------------|
| <b>NAME OF FOURTH INVENTOR</b> |   |         |             |
| Bryan Chase                    |   |         | Date        |
| Inventor's Signature           |   |         |             |
| City                           | State   | Country | Citizenship |
| Residence: Sunnyvale           | California                                    | US      | US          |
| Mailing Address:               | 16215 Alton Parkway, Irvine, California 92618 |         |             |

SDB PAS634974.1-\* -08/1/05 3:49 PM



Rev. 07/01

## DECLARATION FOR PATENT APPLICATION

PATENT

Docket No. 50980/SDB/B600

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Prior Foreign Application(s)

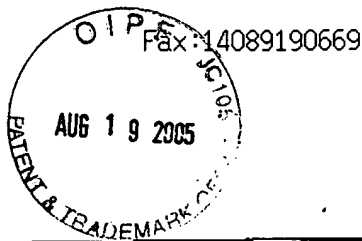
| <u>Application Number</u> | <u>Country</u> | <u>Filing Date (day/month/year)</u> | <u>Priority Claimed</u> |
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| <u>Application Number</u> | <u>Filing Date</u> |
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| 60/147,506                | August 9, 1999     |

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| <u>Application Number</u> | <u>Filing Date</u> | <u>Patented/Pending/Abandoned</u> |
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Aug 8 2005 11:17 P.03

**DECLARATION FOR PATENT APPLICATION****Docket No. 50980/SDB/B600**

I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

|                                       |   |         |             |
|---------------------------------------|---|---------|-------------|
| <b>NAME OF SOLE OR FIRST INVENTOR</b> |   |         |             |
| Stephen P. Pope                       |   |         | Date        |
| Inventor's Signature                  |   |         |             |
| City                                  | State   | Country | Citizenship |
| Residence: Berkeley                   | California                                    | US      | US          |
| Mailing Address:                      | 16215 Alton Parkway, Irvine, California 92618 |         |             |

|                                |   |         |             |
|--------------------------------|---|---------|-------------|
| <b>NAME OF SECOND INVENTOR</b> |   |         |             |
| Aki Shohara                    |   |         | Date        |
| Inventor's Signature           |   |         |             |
| City                           | State   | Country | Citizenship |
| Residence: Sunnyvale           | California                                    | US      | US          |
| Mailing Address:               | 16215 Alton Parkway, Irvine, California 92618 |         |             |

|                               |   |         |             |
|-------------------------------|---|---------|-------------|
| <b>NAME OF THIRD INVENTOR</b> |   |         |             |
| Yue Chen                      |   |         | Date        |
| Inventor's Signature          |   |         |             |
| City                          | State   | Country | Citizenship |
| Residence: Fremont            | California                                    | US      | PRC         |
| Mailing Address:              | 16215 Alton Parkway, Irvine, California 92618 |         |             |



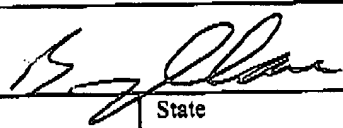
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**DECLARATION FOR PATENT APPLICATION**

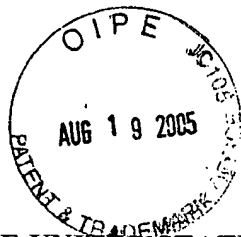
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**Docket No. 50980/SDB/B600**

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|  |   |         |                |
|--|---|---------|----------------|
| <b>NAME OF FOURTH INVENTOR</b>   |   |         |                |
| Bryan Chase  |   |         |                |
| Inventor's Signature  |   |         | Date<br>8/8/05 |
| City   | State   | Country | Citizenship    |
| Residence: Sunnyvale   | California                                    | US      | US             |
| Mailing Address:   | 16215 Alton Parkway, Irvine, California 92618 |         |                |

SDB PAS634974.1-\*08/1/05 3:49 PM



**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant : Stephen P. Pope Confirmation No. 5413  
Application No. : 09/636,000  
Filed : August 9, 2000  
Title : MAXIMUM LIKELIHOOD SEQUENCE ESTIMATOR WHICH  
COMPUTES BRANCH METRICS IN REAL TIME  
Grp./Div. : 2631  
Examiner : Kevin Michael Burd  
Docket No. : 50980/RJP/B600

**CONSENT OF ASSIGNEE PURSUANT TO 37 CFR §1.48**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

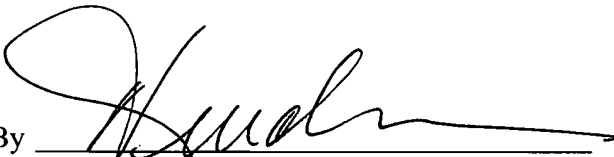
Post Office Box 7068  
Pasadena, CA 91109-7068  
August 2, 2005

Commissioner:

Broadcom Corporation consents to the correction of inventorship for the above-referenced application to list Stephen P. Pope, Aki Shohara, Yue Chen and Bryan Chase as the inventors. Aki Shohara, Yue Chen and Bryan Chase are being added as inventors.

The undersigned is in power to sign on behalf of Assignee.

Respectfully submitted,

By 

Dee Henderson  
Senior Manager,  
Intellectual Property Administration  
Broadcom Corporation

SDB/vsj

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